

ABSTRACT

The invention relates to methods and materials involved in the treatment and prevention of various diseases such as infections and IgE-related diseases. Specifically, the invention relates to methods and materials that can be used to vaccinate a mammal against specific self or non-self antigens. For example, the methods and materials described herein can be used to reduce the effects of IgE antibodies within a mammal by reducing the amount of total and receptor bound IgE antibodies in the mammal. In addition, the invention provides vaccine conjugates, immunogenic polypeptides, nucleic acid molecules that encode immunogenic polypeptides, host cells containing the nucleic acid molecules that encode immunogenic polypeptides, and methods for making vaccine conjugates and immunogenic polypeptides as well as nucleic acid molecules that encode immunogenic polypeptides. Further, the invention provides an IgE vaccine that induces an anti-self IgE response in a mammal.

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